

**1-4 Study Guide and Intervention****The Distributive Property**

**Evaluate Expressions** The Distributive Property can be used to help evaluate expressions.

**Distributive Property**

For any numbers  $a$ ,  $b$ , and  $c$ ,  $a(b + c) = ab + ac$  and  $(b + c)a = ba + ca$  and  $a(b - c) = ab - ac$  and  $(b - c)a = ba - ca$ .

**Example 1** Use the Distributive Property to rewrite  $6(8 + 10)$ . Then evaluate.

$$\begin{aligned} 6(8 + 10) &= 6 \cdot 8 + 6 \cdot 10 && \text{Distributive Property} \\ &= 48 + 60 && \text{Multiply.} \\ &= 108 && \text{Add.} \end{aligned}$$

**Example 2** Use the Distributive Property to rewrite  $-2(3x^2 + 5x + 1)$ . Then simplify.

$$\begin{aligned} -2(3x^2 + 5x + 1) &= -2(3x^2) + (-2)(5x) + (-2)(1) && \text{Distributive Property} \\ &= -6x^2 + (-10x) + (-2) && \text{Multiply.} \\ &= -6x^2 - 10x - 2 && \text{Simplify.} \end{aligned}$$

**Exercises**

Use the Distributive Property to rewrite each expression. Then evaluate.

1.  $20(31)$  **620**

2.  $12 \cdot 4 \frac{1}{2}$  **54**

3.  $5(311)$  **1555**

4.  $5(4x - 9)$   **$20x - 45$**

5.  $3(8 - 2x)$   **$24 - 6x$**

6.  $12\left(6 - \frac{1}{2}x\right)$   **$72 - 6x$**

7.  $12\left(2 + \frac{1}{2}x\right)$   **$24 + 6x$**

8.  $\frac{1}{4}(12 - 4x)$   **$3 - x$**

9.  $3(2x - y)$   **$6x - 3y$**

10.  $2(3x + 2y - z)$   
 **$6x + 4y - 2z$**

11.  $(x - 2)y$   
 **$xy - 2y$**

12.  $2(3x - 2b + c)$   
 **$6x - 4b + 2c$**

13.  $\frac{1}{4}(16x - 12y + 4z)$   
 **$4x - 3y + z$**

14.  $(2 - 3x + x^2)3$   
 **$6 - 9x + 3x^2$**

15.  $-2(2x^2 + 3x + 1)$   
 **$-4x^2 - 6x - 2$**

# Distributive Property Study Guide

**Great Minds**

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